

F16C20C

FAST Recovery Rectifiers

Glass Passivation

REVERSE VOLTAGE - **200** Volts
FORWARD CURRENT - **16.0** Amperes

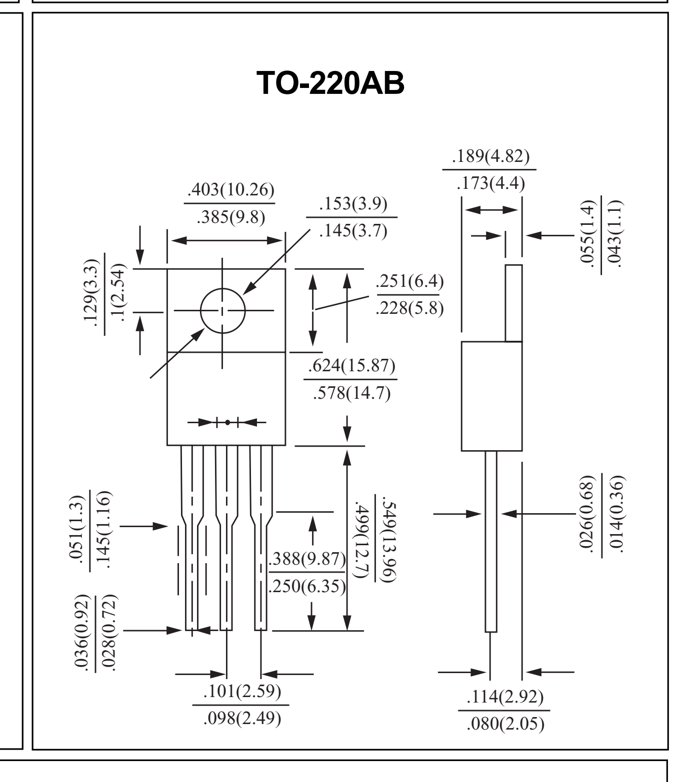
FEATURES

- Easy pick and place
- Built-in strain relief
- Low forward voltage drop
- High current capability
- Fast switching speed
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MECHANICAL DATA

- Case : TO-220AB molded plastic
- Polarity : Color band denotes cathode
- Weight : 1.948 grams
- Mounting position : Any

TO-220AB



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

PARAMETER	SYMBOL	F16C20C	UNIT
Maximum repetitive peak reverse voltage	VRRM	200	V
Maximum RMS voltage	VRMS	160	V
Maximum DC blocking voltage	VDC	200	V
Maximum average forward rectified current Per leg	IF	16.0 8.0	A
Peak forward surge current, 8.3ms single half sine-wave superim posed on rated load	IFSM	125	A
Maximum instantaneous IF=8A@25°C	VF	1.30	V
Maximum DC Reverse Current @TA=25°C at Rated DC Blocking Voltage @TA=100°C	IR	10 10,000	uA
Typical Junction Capacitance	CJ	100	pF
Typical Thermal Resistance	RθJA	3	°C/W
Maximum Reverse Recorery Time	TRR	250	nS
Operating & Storage Temperature Range	Tj & TSTG	-55 to +150	°C

FIG. 1-TYPICAL FORWARD CURRENT DERATING

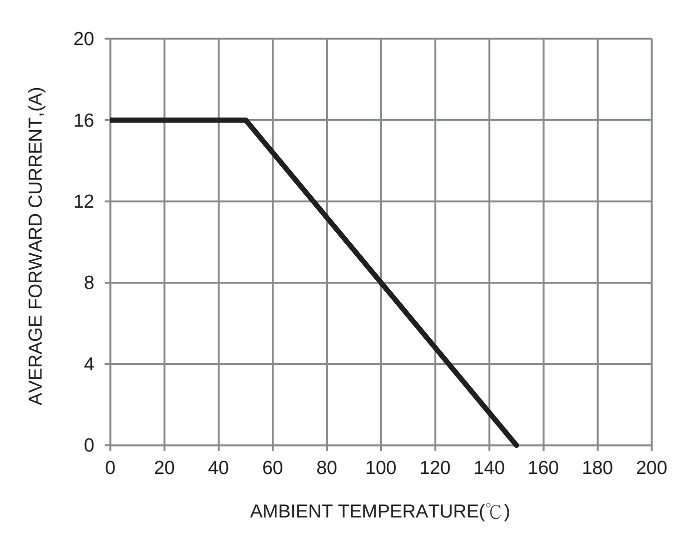


FIG. 2-TYPICAL FORWARD CHARACTE

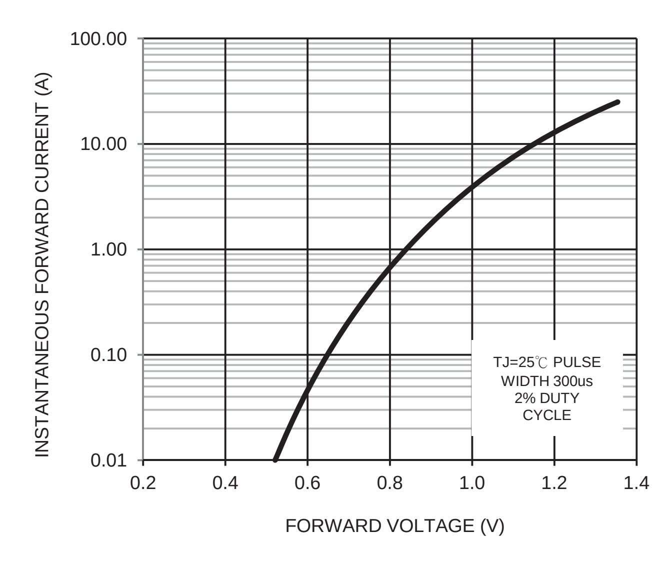


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

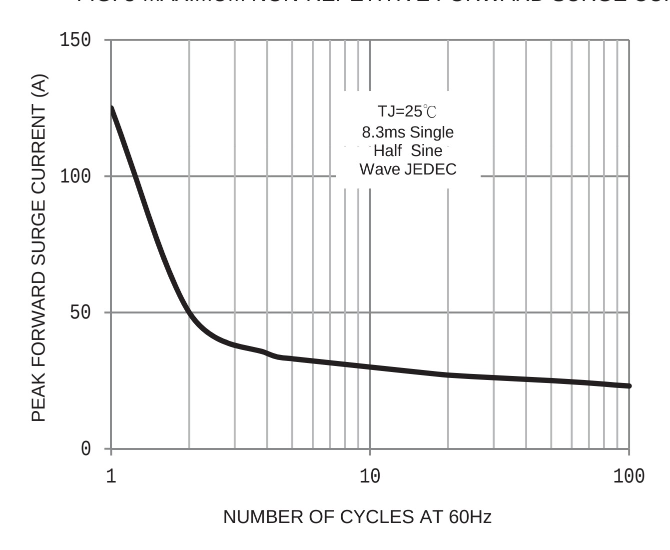


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

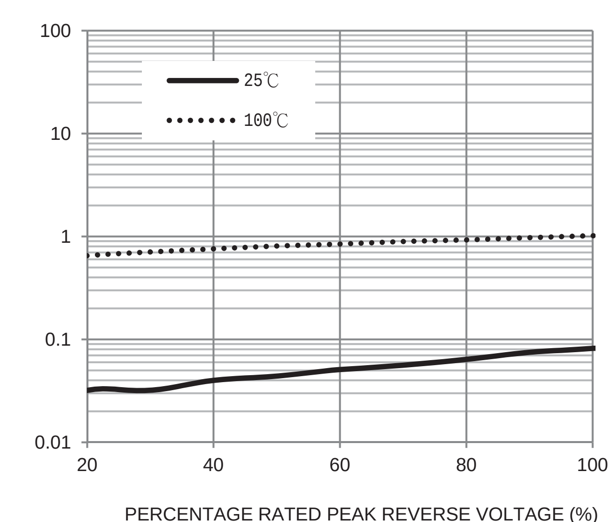


FIG. 5-TYPICAL JUNCTION CAPACITANCE

